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NOTICE OF ALLOWANCE AND FEE(S) DUE

24353

7590

01/04/2010

BOZICEVIC, FIELD & FRANCIS LLP 1900 UNIVERSITY AVENUE SUITE 200 EAST PALO ALTO, CA 94303

EXAMINER				
SAHU, MEENAKSHI S				
ART UNIT	PAPER NUMBER			
2001				

DATE MAILED: 01/04/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/560,193	02/13/2008	Hiren Joshi	RICE-043	5531

TITLE OF INVENTION: CHARACTERISATION OF GLYCANS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	04/05/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

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EAST PALO AI	.10, CA 94303						(Depositor's name)
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/560,193 ITLE OF INVENTION	02/13/2008 : CHARACTERISATIO	N OF GLYCANS	Hiren Joshi			RICE-043	5531
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nonprovisional	YES	\$755	\$300	\$0		\$1055	04/05/2010
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☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies		☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number					
a. Applicant claims	tus (from status indicated s SMALL ENTITY statu	s. See 37 CFR 1.27.	☐ b. Applicant is no l	onger claiming SMA	LL ENT	Γ1ΤΥ status. See 37 CF	FR 1.27(g)(2).
OTE: The Issue Fee and terest as shown by the r	d Publication Fee (if requeecords of the United Stat	nired) will not be accepte tes Patent and Trademark	d from anyone other that Office.	n the applicant; a reg	istered a	nttorney or agent; or the	e assignee or other party in
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10/560,193	02/13/2008	Hiren Joshi	R1CE-043	5531
24353 75	590 01/04/2010		EXAM	INER
BOZICEVIC, FI	ELD & FRANCIS L	SAHU, MEI	ENAKSHI S	
1900 UNIVERSITY AVENUE		ART UNIT	PAPER NUMBER	
SUITE 200 EAST PALO ALT	O, CA 94303		2881 DATE MAILED; 01/04/201	0

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 266 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 266 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No.	Applicant(s)
10/560,193	JOSHI ET AL.
Examiner	Art Unit
MEENAKSHI S. SAHU	2881
ears on the cover sheet with the c (OR REMAINS) CLOSED in this ap) or other appropriate communication IGHTS. This application is subject to 3 and MPEP 1308.	plication. If not included
nder 35 U.S.C. § 119(a)-(d) or (f). be been received. be been received in Application No becoments have been received in this of this communication to file a reply MENT of this application. Initted. Note the attached EXAMINER es reason(s) why the oath or declarate set be submitted. son's Patent Drawing Review (PTO- c. s Amendment / Comment or in the Comment or in the Comment of BIOLOGICAL MATERIAL in FOR THE DEPOSIT OF BIOLOGICAL FOR THE DEPOSIT OF BIOLOGICAL	national stage application from the complying with the requirements. S AMENDMENT or NOTICE OF ation is deficient. 948) attached Office action of the back) of d). must be submitted. Note the
5. Notice of Informal F 6. Interview Summary Paper No./Mail Da 7. Examiner's Amenda 8. Examiner's Stateme 9. Other	(PTO-413), te
	Examiner MEENAKSHI S. SAHU Pears on the cover sheet with the component of this application is subject to the same of the sam

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Art Unit: 2881

DETAILED ACTION

Allowance

1. Claims 1 to 17 are allowed.

Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance:

Claim 1: Prior art fails to disclose or make obvious a method for characterizing the structure or sub-structure of a glycan or glycan derivatives comprising the steps of scoring to produce ranked confidence scores for each of the candidate structures by comparing the masses of the experimentally derived fragments with the masses of the theoretically derived fragments and if insufficient confidence is obtained in the highest ranked score, further including the step of repeating the process by taking into account more complex cleavage patterns in the theoretical fragmentation step, or by obtaining further fragments.

Claim 10: Prior art fails to disclose or make obvious a method for characterizing the structure or sub-structure of a glycan or glycan derivatives comprising the steps of matching the mass of the fragments of the unidentified glycan molecule with the mass of fragments theoretically derived from the candidate structures and utilising a segmentation scoring method to produce ranked confidence scores for at least one of the candidate structures by counting, the number of possible conformations for a glycan identified by a set of matching oligosaccharide fragments and assessing the quality of match for the candidate structure by determining how well a particular conformation is supported by the evidenced fragments.

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Relevant Prior Art

3. Ethier et al. (supplied by the Applicant in the IDS of 12/08/2005) fails to disclose the steps of scoring to produce ranked confidence scores for each of the candidate structures by comparing the masses of the experimentally derived fragments with the masses of the theoretically derived fragments and if insufficient confidence is obtained in the highest ranked score, further including the step of repeating the process by taking into account more complex cleavage patterns in the theoretical fragmentation step, or by obtaining further fragments.

- 4. Joshi et al. (supplied by the Applicant in the IDS of 12/08/2005) discloses the methods in the instant application however this reference has been published after the filing date of the instant application.
- 5. Other prior art include: Marshall (US 7,297,940), Yates et al. (US 5,538,897 and US 6,017,693), and Townsend et al. (US 6,582,965 and US 6,963,807).

Conclusion

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Art Unit: 2881

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MEENAKSHI S. SAHU whose telephone number is (571)270-3101. The examiner can normally be reached on Monday - Friday 8AM - 5PM est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jack I. Berman/ Primary Examiner, Art Unit 2881

/MEENAKSHI S SAHU / Examiner, Art Unit 2881